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March 1999 Vol 5 No 3

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What We Really.

Really Need...

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and may less. But more to the point, ask-As an industry, we tend to get being up on manerous philosophical issues. Why a

senous competitors? Which wenders will druc? Who is 700 per cert convented to the Among 17 When on and proper on Manage 7 Which-"Whotever Burks," many 16.1 In the most we've talked a lot about NCs versus NetPCs. versus terrainale, service BCs .... has tacks

For the most part, paytomers' concerns ness computate

business goals of the organization.

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## of application and internal services persons to

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research for 87 Careda, said the company as positio of interest safeware and hardware, the Furnious 8000P and the Eurocom 2190P. According to Duncary Statilling revolutioning digital volumers. The port trespents digital video data at 400 MB/Les. The notabasks now

SMR of SGRAN for vicing The Eurocam (538)\* has a 151-inch

Proved facely parameters find powers of scalable.
Proceed for the BIODP starts at \$2.799. The 21.80P starts at

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ASSEMBLY PRODUCES up to 168 of 600 Cobalt Emphics chiquet, high-speed number and 10 interconnect. The

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News

# CCW Picks Show Winners



A 1 Vaccount's ConstenConnell West 59, seven worthy wratten packed up the featuration 59 beau of shown attention, as the believed of year parell of editors from Canadian Computer Paper

These wexters are:

\*Parameter Canada Inc.'s Teeghbook CF-27 regislated nonhook
with bade in weekes communications, stating a zeroed \$4,000

\*Parase Claim, Que-based Protec Microsystem Inc.'s \$235
Whibliotic device for Interest and Indicated in sharing develop?

Memberts device for increase and internovers saming, accountsingle consection.

Memo Salation Bic V Backpack CD-Rowritor 4X pumiliel-postconnected CD-RW, perced at 5799.

ViewSoric Copp.'s 51.399 depaid pyrong ViewPanel VPD150

LCD memory, including an ATI digital graphics card.

Vancourse behand Xing Xing Companie Craphics has be new Lobes
Spring pana software, deploying way increases graphics.

The Lineau operating spaties, presented to the endousance
Wesconred Lineau Chain Group.

The includion's unadiscipation and leadership in Cellular District.

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Jeff Eures is Associate Editor and Grace Casselman is Editor Consultan Communic Windowsker

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The unit, shown by Culture's Tap Mebility, a business namer of leader in CDPD. For example, in 1996, the Delta Police force, in the CDFD-based dispatch system - through a pertocrokep with BC Tel Mobiley According to BC Tel Mobiley, COPD allows the Deba pertable computer couloped with a weeks CDPD modern. This is

sations with the dispotation CDPD offers brish levels of security through encryotion, relative-Summer for TCFSP is what allowed the Minstel to give the Palm window Web Incompany CDFD and the poly window date inchnology.

Two other systems have had wider availability. Mobiley, which to bring offered by Carrel ATAT and Audia, excitable from Rell orn from Bell Melvilly and its business partners, (then supplied the send siture in the labby of the Calgary Convention Cours, sending 12 CARADA COMBITS WILLIAMS May 1917 Man Programme and

**CDPD Wireless Set** to Take Flight

> phone sick in visits. No dial-up was recousing -- it was like being on However convenient they can be, both Mobiley and Aglis are

employ the 'Net and all the data access potential's holds for remate Iwasi hasiware costs to go wireless with CDPD reage from \$500 to \$1,000. For example, the Managal salls for approximately \$500 Then there's a mentily subscription (ce, which can range from approx-

smarchy \$30 per month and up, depending on the surrigar reclaims Interest in CDPD agents to be evening. Seem Wireless records uses the siese kind of weeless Web access potential that the Massaul ing, and its ToughBook 27 rotathook computer includes built in sepsolution for destributed network access. IP-based regrangs offer the

This seems like a potential opportunity for VARs and parauftings even notice. We know that if we good to make a phone call, we con yest

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oral his offered a phenoic of a new selfied services strategy was completed on Aug. 31, 1998.) The end much should be extrated noutree, although there are

service partners compete ducelly for service business) have been a able. This corrective situation often results in the weeks, because portion and, aldinorally the customer being at odds with each other custament and a "Business Partner" survice presents for the channel

Catalitie channel, particularly during the post two years. Buy has Canada than exgle typically be done to other remons-Buy currently beauts transferit of agn-cuthword modern

Canada, find with the country's taloos - typically the largest network

the volume of data network equipment they self - than with large systems and octwork integration. The children for the tries of Bire-CHARGES COMPLETE WHILE SALES THE PERSONNELS AND THE

With the deep entroughescent several the country's beyond and stock look to establish equally strong relationalitys with Consilian resulters. Will Name Bay's owleff and stratery around services and support

more aggressive marketing of the Bay product lene?

Noted, when it first unveiled the new services strategy to

tion is not curved as priente, radging by comments made by an official the soul. but w's still not early to tell whether this will absolutely be the case well the enter storiesy is rolled out I And note this noterial grow its Buy Networks Named Account base to 500 accounts, sterifallimately to create higher level expertace and structure brand aware-

Some more find that a survivar envertuent in Casco corresponds

emerwith drives more husens. Notel they is offgree to small-

sterror with Nortel, erves that Catadom are very facility with Nortel meteor bore could be much more willian to enhance their mission-

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# **Onward** and **Upward?**

Wizardry at MacWorld Expo



o his keynore speech of Fenerisco, Apple Computer Inc. founder and rememal interns CEO.

nangway success with the Mac computer, expend

former agels (see Rell Grace) And New for the Next Trick... Jobs had a basic percentaging to sext about a prayriporated Aquit - 14

somers. Making the most of his moment in the spotlight, John unwelled.



solout, recluding a nonhistened new version of Microsoft interest

are or 1996 house. The is block to transfer into continued attrest sales and probably continued profeshior through the rest of the year sandbox, it will have a very hard time as it buts beeds with the West-l the 12 to 15 per cost level it enjoyed a decide ago. If Apple wants to

Nevertheless, the spelsase for Jobs' performance, both or MicWorld Expo and over the last 15 months. the minitry - for beyond the traffform) hard core Mac dryester, Di



Jeff Evans to Associate Editor of Compiler Computer Windowsler He

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than Indicated by Modest Sales of Official NCs

t Toronto's Internet World in Longo to type up some short articles and c-entil them to the edges Instead of the rarel PCs, there were lattle black IRM per-I sat down in free of one, owled a that these NCs (idn't have any floppy doves-

to type the password in and be recognized by the system as a legitlerate user However, for a tech support person as were After about state ions to my office to a personal computer

And so, as I sat down to wrate this article understanding of why the network computer so fur has had pally modest success in the oral

The Vision Thing In 1994, Oracle Corp founder and CEO Larry Ellison amounted the "Five Handred

the PC. This new approach would change the or the late 7th and early 8th, Edison said. of dus Network Computer, or NC It would be a powerful lattic bee verbout a hard drive terminal, the NC would have its own local putation respects of the server is major

The ward alone PC, with its expensive-towere, was sergily a bad idea. Rather, the hunweekl offer cheer, relable scoon to vast conces. The network computing business model would halt the slevrocketter costs of Macausalt monopoly on the deskeep, by offer-

the old "darsh" network terroral that had world, by making a affordable

Creata's Corel Corp became in only conven to the Java/NC model. Corel's sharts indicating that sales of NC/larn com-Windows PCs within a few years.

The Legion of Bill Haters Over the bull decade since Ellison's

Committee - a sealed, diskless network inferda espable termenals. The beatom lane, how-

evolution of the Wantows PC, by the steer paradiant of network computing formulated

#### NETWORK COMPUTERS

Microrreturn's Jave and Netscare's to Microsoft's Windows PC electors: An trees the mand wonderfully Bill on Larry's

browser and connected to an increment. comest or the Web, is a network comment sum, but on NC nonetheless.

book or desires PC, is connected to varily

economics and the technology of the

As network companies inaccessingly

It Ala't Over Til It's Over Ellison believes in a world where every persond efections down, whether a start

#### Some Planer

NC3 (Habilly-way, and cont.

The prospect of name the networked NC were mainward Corell to disthins the NetWinder family will represent transmitted supposes from Hardware

Smile Care Ulda /Newworash card last lander at garrent classificary solutions CEO Lany Oliver plants that the

#### brends WordParfect and Corrillane"

further focus effects on our care softween Donness and our two fleeship MM Cary (Atp./www.shec.com/sci convert to the retwork comparing intertive. The company "did norm in TBE" to

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In and 1996 Will began to mediat the SCom Palm Print handfald PC to its

Stanford Corp. (Stanforwarens): cont.

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Wiles Witterms for exemple The now Windows 2000 sense lakes infrarther

# Rengrable torage

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But what about CDs?

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of that all by forch, space get in gift to other applications on the direct. While the exhibitions the problem is easily a large distance on the direct, markler space and paper plant in the large copyright of the problem is settled in the space of the paper of the

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equat event problems syng to use penallel port derivers under Wastdows NT, pickade the system coulon, disruption of the SCRS claves, and the authlety to extent the system NT octs may wred to event penaltel part derivers simpather unless their intervaling to it is delivered.)

For traveing this month, we consided each of the drives on our term system, what

2000 to Protein II system with 644B RAM. During sorting, we checked own of conditions under both Windows St and Windows NT Workshore 40, and Evided were specific first large files and large devotroers. The large file was a ungle 72MB file, and the large devotroes was the same vary to be composed of 475 studies files.

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(No netted desire) by min. When we conside the large winderman, we capabilities and for plader a smaller lander () beth plane, and a be right mile; When the lates were capsed to the consider mode in "binar" (See- the cap) upon these model (which parties) them on the device readed (or covering) when support a fire capsed in plader. The compart "Bines strong in copy the fifty as a bear batch. Whather would many thou diplatements," and would consider from the control of the control of the control of the compart () Binespare discovery to be of the control of the control of the control of the compart () Binespare discovery

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The color cast.

#### Ferritor Dynamic 649 SE

Estausind Cent of Medius 500
When it comes to storage most brow.
Figible as a feeder in hard drive and face
technology in addition Figible is also

to moor in majority optical technicity, with MD dives for notebook computers and to the concurrent dealtop. We had a chance to look at one of the dealtop units. The Dyna MD 640, with \$40.000 of serior, is.

The Dyna MD 6AI, with 645VE of spece, or the actional variance of the MDSD drive, eight a solidal convy blast case and an URSDCD convoses. When stracked to an accising SCSI chine, both Windows SE and Windows IVI servence

son Wen stacked to an existing SSS chee, both Windows SR and Windows SR in ecopation before strinedsoly. This allows the seer to start writing to the drive ellingst missionally. Who lave was relatively speedy, both Mindows SR and

Widdows NT were able to measing the 22ME file to the recolumn 2 to measure constituting Langu discribing hardening to the bid looper, with Windows NE betterforming the file of the part of the state of

#### Supposed Relati Price 43313 station Supposed Relati Price 43313 station Separated Cost of Mader 455741 12551 USBNO

Estimated Cost of Media: USSNS (358), USSNS (403), USSNS (458), USSNS (458) Contineed Cost Add (453 (350)) page of media.

The MabdeDove is a bit of a different beast from the sext of the stores looked at this mosts, or in a recently bery dive technology.

but set up to be apostable. The Michia Drive school is restalled anone of the full sund begained convected to the IDC chain. Large "cettridges," which are really

naiso crives, are resolved with the storium.
This sentup has anytural advertisages. First, we the device includes on the IDE chain, cases one best from one of the currendors has then recold a regular band drive. Settle however, in the

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these are estembedly the same thror, spend a companied. Milladows this residence legs (see annly 22 accords and the 10046 develop may suck 22 accords in the testing filled and NT for blanger, well the file taking 62 accords, and the develop stating set the spend makes a possible for the sterra to you explosions from the MobileCover posterior topy. A west permit if

is specification of makes in possible for the service run explosionous han the Mobili-Draw without incombing — were special.

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reconfiguration to acceleration if.
In the and though, sees looking for an altra-fest solution with eatherhigh capacity

#### America SuperOisk LS-120 2X

Suggested Fasoit Price: TEA Estimated Cost of Media: \$25.35, \$140.35 for a 10-pack

There, for a few retainer, The LS 120 setherhology used journing evirylood by a young of offers and compensus, toddedg limition, Company and Pensussers. The 320 mile bed.— 12080. The LS person stands for limits service bed.— 12080. The LS person stands for limits service bed.— 12080. The LS person stands for limits and debt they is enably this seaso can act the 14080 standard floopy dark. What's enough the LS 120 drive as becineselce-public live with floopy darks.

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only each, with the hope (the beauty instruments) for which is needly \$1.5 high master unless without \$4.5 miles and \$4.5 miles \$1.5 miles \$1.5

the durt, share as also a parallel revision available (\$770.00 and a 050 version (\$890 for parallel for use with the oblige? There is also a PCBCLS receive smeltable



strengs same, first with the 189M\$ Zie disk. followed by the 105 Jr; dok Fecentic. lomoge has added a number of additions to

#### Jamega Jaz 2GB External Forward Cost of Made 2115 (255)

The Jan 200 is a 200 version of the Jan Stive.

When whethed to an existing SCS1 share. ing the 7969 file in one mission Set, and the

make the cove of

miglimed a production.

The Zin 100 selects holds 100000 and

Windows St. the 72965 test file was committed to daily

should be addressed when Wednes 2000 is released Mac should make up for these small complexes. The

methods in tenning some

#### Jersega Zip 100 USB

Entinemed Coat of Media: \$25 (or leval)

### lorsesp Zin 253 Parallel

Entirented Goot of Media: \$30 technics to change)

of cover upping the capacity from 100000 to 200MR. The new days and may accept the older 100MB disks land users worned that they make

married 2006 dealer. We want able to leak at the perallel services of the Zin 250 had a

towerds the SCSI varyan of this device

White speed for the parellel device was also a

In general, the 258MS version of the Zio drive side: Zo daks Now you just have to shoese between the snandar 5000 and the observant porafiei port.

#### Pagasasic LF-D101 DVD-RAM

Separated Retail Proce \$1,149

Estended Cest of Media 155 for a 5 303 cadador, 525 for a 2 665 canadar First out of the center in the EVD-RAM faild, Parassonic offers up the LF-\$100 revente able DelD. The technology deep not yet allow the user to fit a full 1199

space, and allows this media to provide a wable obstractive to the more expensive The revoke for this certicular drive ships made contrides. The 5.265 dail is feed inside the carpridge, but the 2 600 centrodge can be opposed up and the data removed. Further, the

tidges, or as a logge day. As a reader, the drive is conseable with DVD. EDAL DVD value. At the time of review devers were available for Windows 55 and 58 but not NT, so write

trans were only lested in the Windows St ansaranment. The 73MB Se was committed to the media in 2.45 masses and took 5.20 mentas to write the large descripty After writing the 2668 centraling can be septiad on and the models revision that the sense.

When you take into neer and both the speed and flexibility of the DVD BAM drive, as far as

of the YMANE drives Paresport's double-speed

Everyone knows the name Panasonic, but many probably

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Penesonic SuperDisk LS-120 28

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### Visualize Your Data

component Antifers GES allows the user to access this dam either sacleding Microsoft Access, and of course Oracle, DB2 and SOL-

This data occors allows the auer to counts layers that present extended visual efformation For example, unexpected peckets of valuable opportunities when the origin of the code is superingoised over other lavery

of the arms in execution, for better targeting and further nealysis.

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#### A Programmer's Dream

The entire ArcNew CIS interface is whiten in the Avenue whast onis to assist in the decrease-making process, it makes sense to have our

#### **Data Availability**

a grace Depending on the type of reformation maken for each reatal code in its sphere of oper-

Consider data, and a constance is included as the AztYony CIS is descended from ESRI's mens, the relievy and Former 500 companies Because of this, a

#### Web Support ESRI members a very surful Web site at him those errors on or

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by Alen Zismen

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velor researchly detailed answers. An such, it is not the sort of there is a let of information, much questions, mestably, overlap. This

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wannibees. For example, it includes helpful officioney will prove vakable to many such

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covers the same territory color) it offen more detail

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the, Windows 55, NE large system registry. software, and user

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pricator development has gone through a

At a speak there have been structural shifts on how off IT development is disse, and 1995

DOJ arritant one brings slements of many of these transla-

The basic facts missing - a petwork with 1965@ses parrentham, a Personn II WEMHIserver with 256MB of RAM and a 20GB disk ple: Windows NT with Corel Office, comes The Asias Fig will contain to yourd

hardware access confeveral while Loren-

## Top 10 Trends in Software

#### "Buy" burys "make." Free hardware and software is here

- People costs dominate N-tier processing begins
  - - the IT backbone for 2000
    - The Year 2000 problem is for real.

#### Ruy Ruries Make

Bay has buried make for most IT shoes. Only the most stranger of

radactry, growing at more than 39 per over (according to

Free Hardware and Software!

Well, it carely as well be free CPU, memory hard dok and com-

SECURIT SECTION Management on

#### People Costs Dominate

Poppig costs have always here cause IV con-missions. But no here on the early 198h, in many amorety the hardware come since that the flight of a region system continue. Now, software development, unral, That's marky due to the develop to bendance and anhance encour flor

revied consider anality and levely in their IT work/orce will be bester postureed to prosper us.



#### Microsoft Stumbles

Lot Mrs. a Software Publishers Associated problemy and anti-connectains mactices

#### N-tier Processing Begins

backup when the extensive of the seniors in visual over an many chain and other intravated evidence wanted the final charge of ET upo-

decribed processing. The Barmet's true WAN, canded open prainces that solved critical need to know information structure. methods OHML, CGI, IP, favo or law dicrard were good. Also, many

long of undating data as a distributed basis in only new house December and putter development in 1966 were entranscent. All ever FRP yealers adopted it and this presuduced actor restores became the moon. Note Bith, and another some servers from all the moon. 1040 System cough in 11 1990/1999 product times — visite states.

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there are at least these time manifest in the recovering class PC's. Web-

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not through Microsoft's enviran position in may way. Thus, of course, or

easy between USS1 spilling and USS3 spilling. The law, over the

Computing Industry Consolidation passes get began In 1998, some big compare and neuralitions

occurred. CompaniDinital. Nortel/Box. Netscare/Kiva. Sen/Net racintable result to a slowdown in prowth and innerwises. It also can the incremently apportuni ERP market, according to ANSK

more challengers, as contenders used to those religion to some very

Lots of new stock

Better looking Better price

ERP is the IT Backbone 2000

The leadure workers, including SAP, Bost, Oracle, Peoplewik and J.D. Edwards, are growing at its emposing average rate of about 40 to respend operations, reduced risk of project fasters, and shorter delivery reduce the correlates of "forcet fit," and "sociated selenth" and

The hornes have As of 1996 non-east 26 per cost of Fortune 1,000 consuming were superiodly using EEP systems in the backbook

By the way 2002, FRP owners will provide the IT backbook for 90 per ceux of the Wilshow 5,000 top companies. In sum, development

#### Object-Oriented Technology

and Components Take Off mome inchesiony Any many of ActiveX, Javallana, MFC francworks, CORBA residiewere, code generature and other applicable development winnels means tilling advantage of components and/or observerseed technology Lake the Year 2000 problem, the sectors of rough as no pervasive at as hard to quantify. But the devent toward divelopment and system delivery tase, more ethelic code and seacounted CASE design took support both forward expired tag (changing UNG, discrete directly crap C++ or Area code, for example) and language source macrostrolly (power the appropriate CML diagraps).

### The Bloks of Year 2000 are for Real

Your 2000 us a Godnilla mobilera -- in's a case where over does matter have sured bandon's of collision of dollars on Year 2000 searchston. first that they are mill valuerable because their customers and suppliers cause hardle the Your 2000 problems as emerially

As a world society we have become dependent on the continued operation of embedded, stand-slove and networked competing devices. The bill falls due Jun. 1, 2000. At an time has that old Sever's

note in at last there explorang ned-planes, and he can be reached as www.ndureng.ect-desery. What do you are at the major trends in 28 CONTRACTOR AND ADDRESS TO A THE AND ADDRESS OF THE

#### Pentium III is more like Pentium 2.1

legal has accepanced the Penturn III, which should be obsected as you read the. But don't

The History The changeover flore inset's original Posture to its next-government

officerd to the Sixt One standard, requery all-new matherboard

7 design, it remains in use by lettel's competitions. One of these consistency Service 2 (200) - AMPLY NE model ine, powered the mess computers sold as retail lost year, Graphics Port (AGP) value, though that's now exclubethe system but has been pushed up from 644444 to

Otto. The Freezing III is more than a freezing 7.1 ages also Unlike the druster design charges provided to hards current Persons III contons will need to operade their system BICS. examing Furthern E companies (CPU speeds will at least withfully not be words of one factor than high-and Posture By, with 455MHz and

500MHz Proxism IIII models replacing 400MHz and 450MHz Portism. Bit -- continues to run on a 10054Hz santon butto face these will be easy feet reserv difference between a 450MHz Person II and a 450MHz Pensue III. The rever CPU

Sounds like MMX, doesn't it? MMX, appearing in early 1997, and also a street of their revision factorisms, street at letterists multiproduce preference: MMX was first added to Pertina level processers. Compatible instruction are used appeared in record of the

The problem was enthant had to be secretified to creted to take was Even panie communies have been more likely to produce various.

Will the same the owner the Karman companion? We'll have to th spoopers Windows 2000 operation system.

Personn III models. Many Chak, vice-providers of methodologist sunpfacturer Servi, suggests we can look low-and to a 133MHz has speed later in 1999, required new chipsets. There well also be a ward-up 4X avach 600MHz by his thin year

To face Cheffing associated basel to home about posterior emendent of processors - respending to completely

of chance, covereible AMD, which has been succeedably building near and recommend ASOMILIA KA-T contains a Surchart Templas, at present will use a Slot One-like technology to run it 500MHz and above, with An expension region for records as basis as 1 0000000 connection in the ness NVO to the comment withher from shareness to comfort suchnology The critical K7s, remembed last October and due wad 1991, are assessed to our on an analyging 2005fflig statem but. built using Digital's advanced Alpha EV6 bus achinoless. While recover well be no AMD to consume assume manufactures to build

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